	Application No.	Applicant(s)
	09/856,070	HOLMS, RUPERT DONALD
Notice of Allowability	Examiner	Art Unit
	Chih-Min Kam	1653
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	TS IS (OR REMAINS) CLOSED in DL-85) or other appropriate commu: INT RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>8/3/04</u> .		
2. X The allowed claim(s) is/are 31-34,36,50-62,65 and 6	<u>6</u> .	
3. The drawings filed on are accepted by the Ex	aminer.	
 4. Acknowledgment is made of a claim for foreign prically a) All b) Some* c) None of the: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document International Bureau (PCT Rule 17.2(a)) * Certified copies not received: 	s have been received. s have been received in Application rity documents have been receive	on No
Applicant has THREE MONTHS FROM THE "MAILING Double to the comply will result in ABAN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which		
6. CORRECTED DRAWINGS (as "replacement sheets (a) including changes required by the Notice of Drawing including changes required by the Notice of Drawing including changes required by the attached Example No./Mail Date (1904) (1984)	itsperson's Patent Drawing Review miner's Amendment / Comment or CFR 1.84(c)) should be written on the	r in the Office action of he drawings in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREM 		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-3. Information Disclosure Statements (PTO-1449 or PTO-Paper No./Mail Date	948) 6. 🗵 Interview Si Paper No./ 0/SB/08), 7. 🗵 Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date <u>2004-08-16</u> . Amendment/Comment Statement of Reasons for Allowance

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An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David R. Saliwanchik on August 17, 2004.

Examiner's Amendments to the Specification:

Please insert the following paragraph at page 1 after the title

"Regulatory/Unfolding Peptides of Ezrin":

This application is a 371 of PCT/GB00/03566 filed September 15, 2000, which claims the priority of United Kingdom Application No. 992188.0, filed September 17, 1999.

Please replace the term "FIGURE 1 is a diagram" with "FIGURES 1a, 1b and 1c are diagrams" at page 5, line 1 of the first paragraph.

Examiner's Amendments to the Claims:

Please cancel claims 67-76.

Claims 31-34, 36, 50-62, 65 and 66 have been amended as follows:

- (Currently amended). An isolated molecule [which consists of an amino acid sequence] that binds to the hepreceptor, wherein said [hepreceptor binding sequence] molecule consists of 5 to 41 amino acids containing at least 5 consecutive amino acids of SEQ D NO[.]: 29.
- 32 (Currently amended). The molecule, according to claim 31, wherein [the hepreceptor binding sequence] <u>said</u> at least 5 consecutive amino acids <u>are</u> located at positions 1-13 in SEQ ID NO[.]:29.
 - 33 (Currently amended). The molecule, according to claim 31, wherein said [hepreceptor binding sequence] molecule consists of from 5 to 14 amino acids.
 - 34 (Currently amended). An isolated molecule [which consists of an amino

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acid sequence] that binds to the hepreceptor, wherein said [hepreceptor binding sequence] molecule consists of an amino acid sequence selected from the group consisting of:

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MREKEELMLRLQDXaaEEKTKKAERELSEQIQRALQ (SEQ ID NO[.]:2);
EREKE (SEQ ID NO[.]:16);
EREKEQMMREKEEL (SEQ ID NO[.]:17);
KEELM (SEQ ID NO[.]:18);
KEELMLRLQDYEE (SEQ ID NO[.]:19);
KEELMLRLQDYpEE (SEQ ID NO[.]:20);
EELMLRLQDYEE (SEQ ID NO[.]:21);
EELMLRLQDYpEE (SEQ ID NO[.]:22);
ELMLRLQDYEE (SEQ ID NO[.]:23);
ELMLRLQDYpEE (SEQ ID NO[.]: 24);
MLRLQ (SEQ ID NO[.]:25);
QDYEE (SEQ ID NO[.]:26); and
QDYpEE (SEQ ID NO[.]:27).
36
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
50
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
51
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
52
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
53
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
54
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
55
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
56
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
57
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
58
59
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
60
61
      (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
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65

62 (Currently amended). A method for upregulating the immune system in a patient with cancer, Human Immunodeficiency Virus (HIV), or a bacteria infection, wherein said method comprises administering[,] to [a] said patient [with cancer, Human Immunodeficiency Virus (HIV), or a bacterial infection, an effective amount of a molecule [which consists of an amino acid sequence] that binds to the hepreceptor, wherein said [hepreceptor binding sequence] molecule consists of 5 to 41 amino acids containing at least 5 consecutive amino acids of SEQ ID NO[.]:29; wherein the administration of said molecule results in upregulation of the immune system in the patient.

(Currently amended). The method, according to claim [64] 62, wherein said [hepreceptor binding sequence] molecule has between 5 and 14 amino acids. 66. (Currently amended) [The] A method[, according to claim 64] for upregulating the immune system in a patient with cancer, Human Immunodeficiency Virus (HIV), or a bacteria infection, wherein said method comprises administering to said patient an effective amount of a molecule that binds to the hepreceptor, wherein said molecule consists of an amino acid sequence selected from the group consisting of:

MREKEELMLRLQDXaaEEKTKKAERELSEQIQRALQ (SEQ ID NO[.]: 2);

EREKE (SEQ ID NO[.]:16);

EREKEQMMREKEEL (SEQ ID NO[.]:17);

KEELM (SEQ ID NO[.]:18);

KEELMLRLQDYEE (SEQ ID NO[.]:19);

KEELMLRLQDYpEE (SEQ ID NO[.]:20);

EELMLRLQDYEE (SEQ ID NO[.]:21);

EELMLRLQDYpEE (SEQ ID NO[.]:22);

ELMLRLQDYEE (SEQ ID NO[.]:23);

ELMLRLQDYpEE (SEQ ID NO[.]: 24);

MLRLQ (SEQ ID NO[.]:25);

QDYEE (SEQ ID NO[.]:26); and

QDYpEE (SEQ ID NO[.]:27).

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Objection to Drawings

Figure 1a, 1b and 1c are objected to because the sequence numbers in the drawings are too small to read. Please submit the formal drawings

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached at 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chih-Min Kam, Ph. D. CAYK Patent Examiner

CMK August 17, 2004 Jon P. Weber, Ph.D.